

FIG. 1

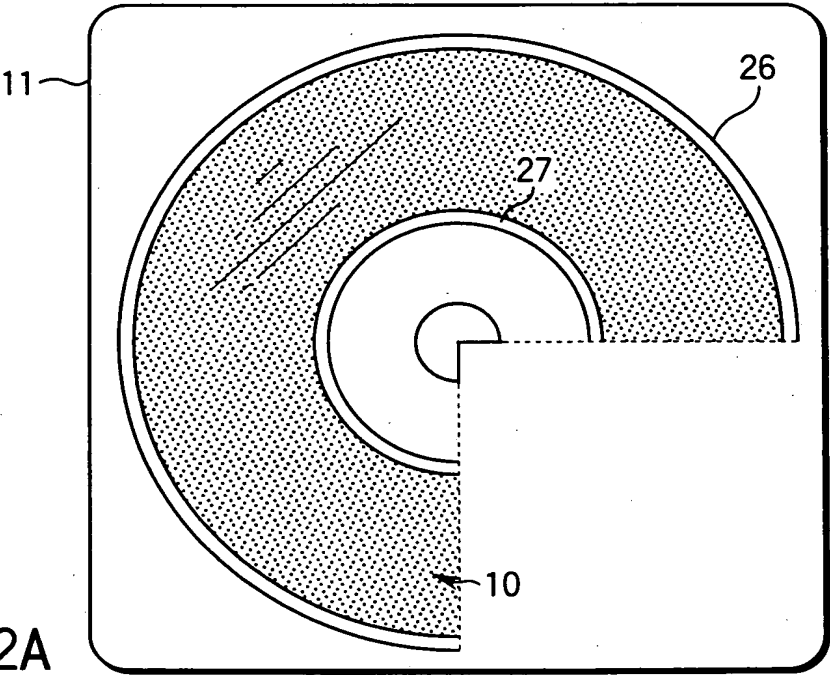


FIG. 2A

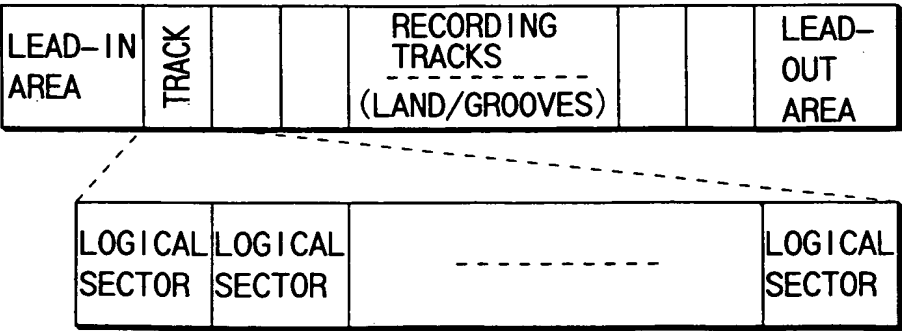


FIG. 2B

← 2048 BYTES (2k BYTES) →

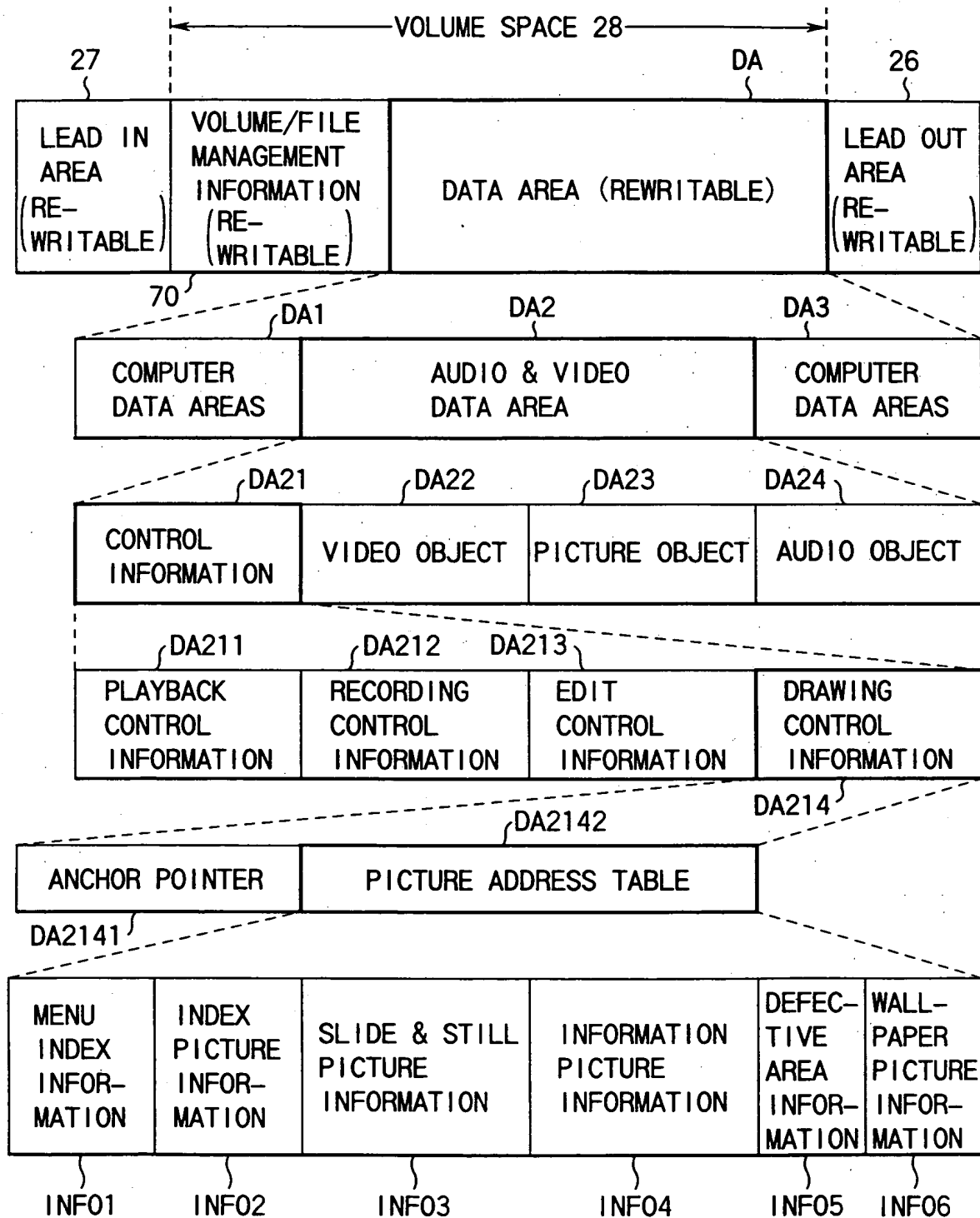


FIG. 3

FIG. 4

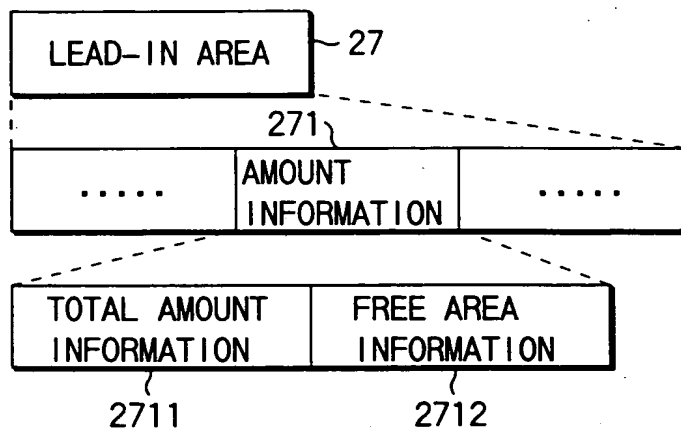


FIG. 5

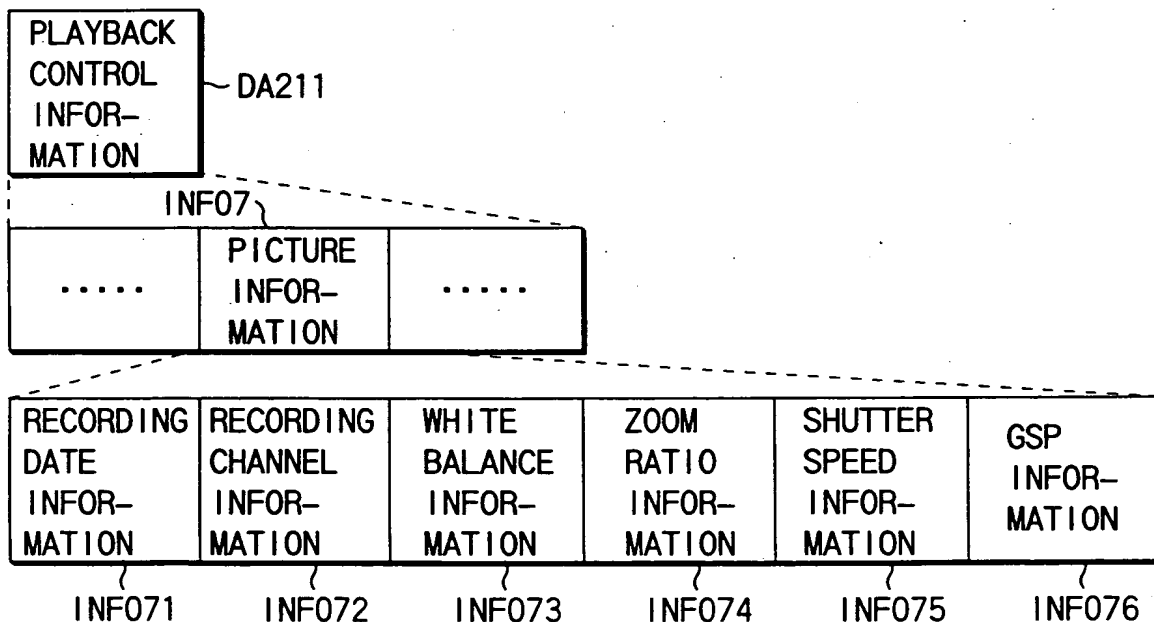
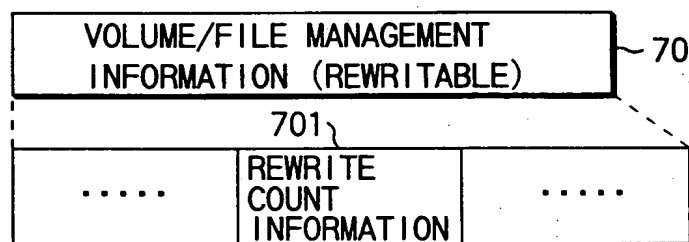


FIG. 6

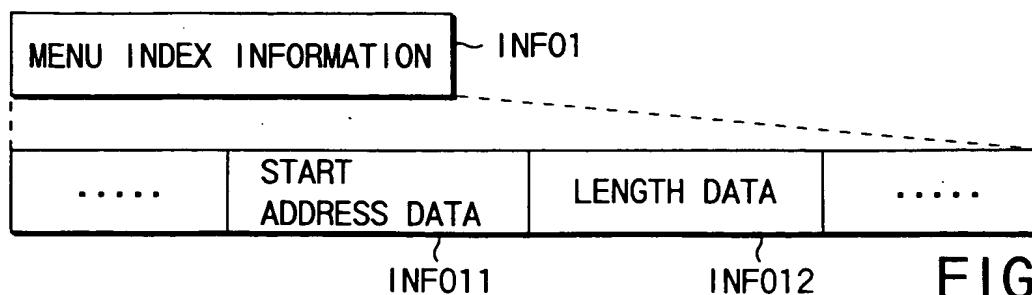


FIG. 7

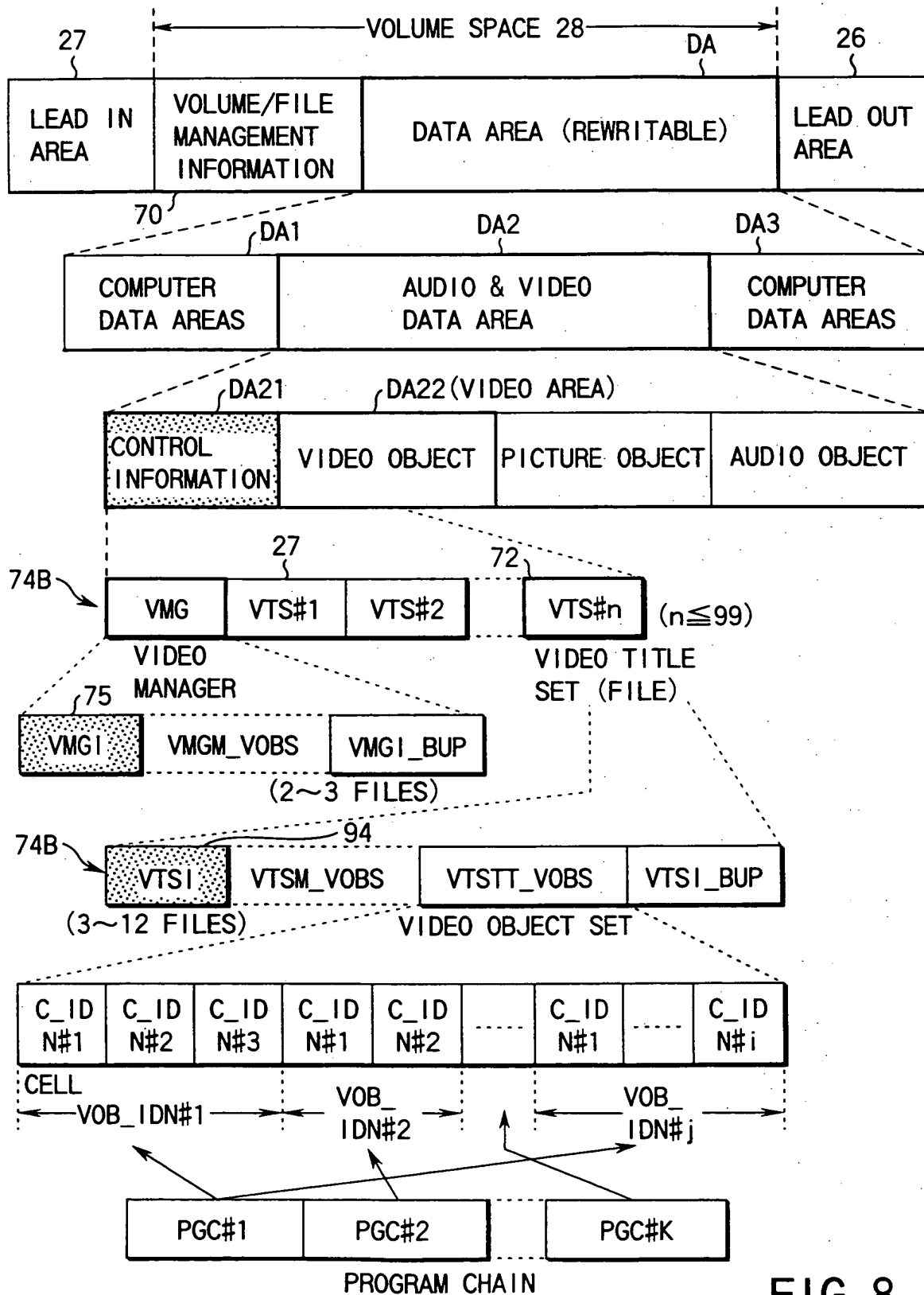


FIG. 8

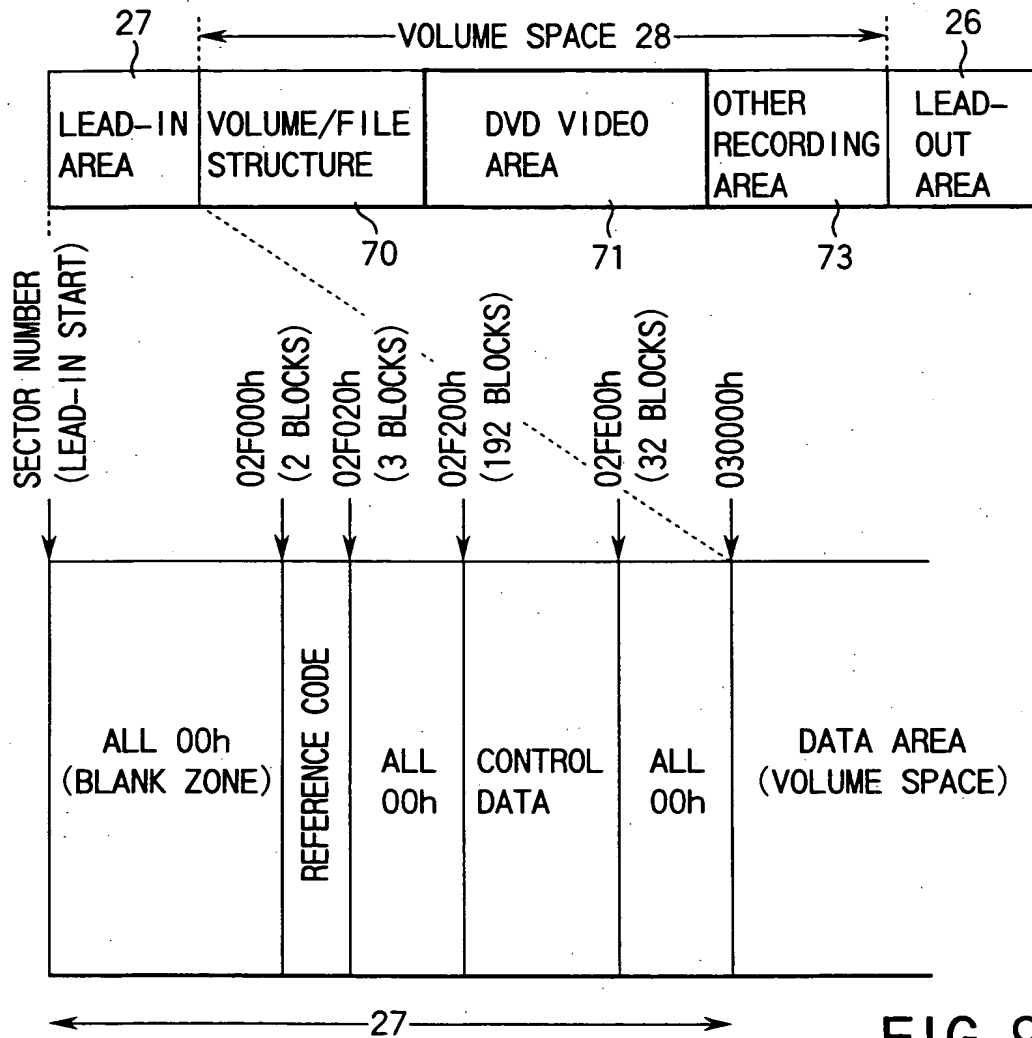


FIG. 9

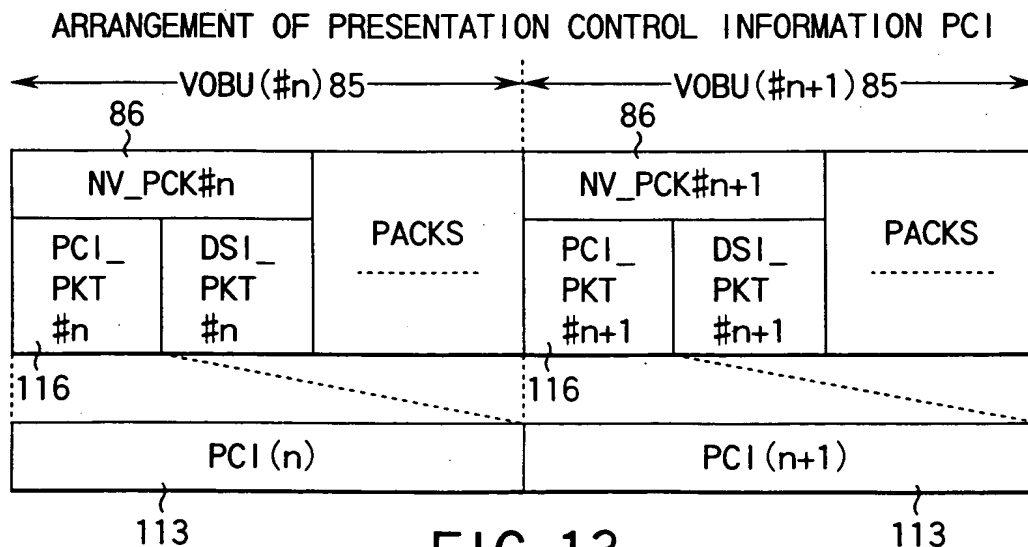


FIG. 13

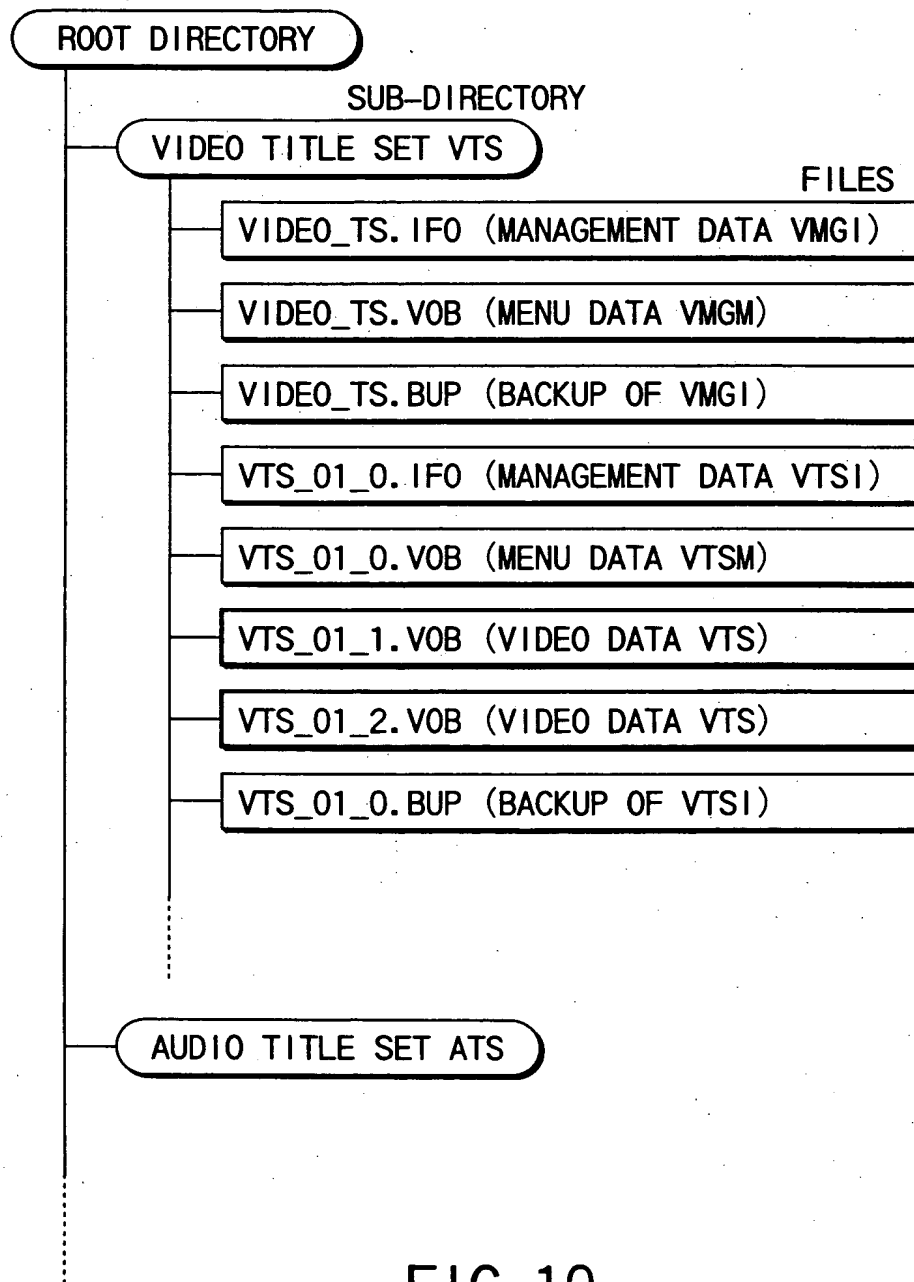


FIG. 10

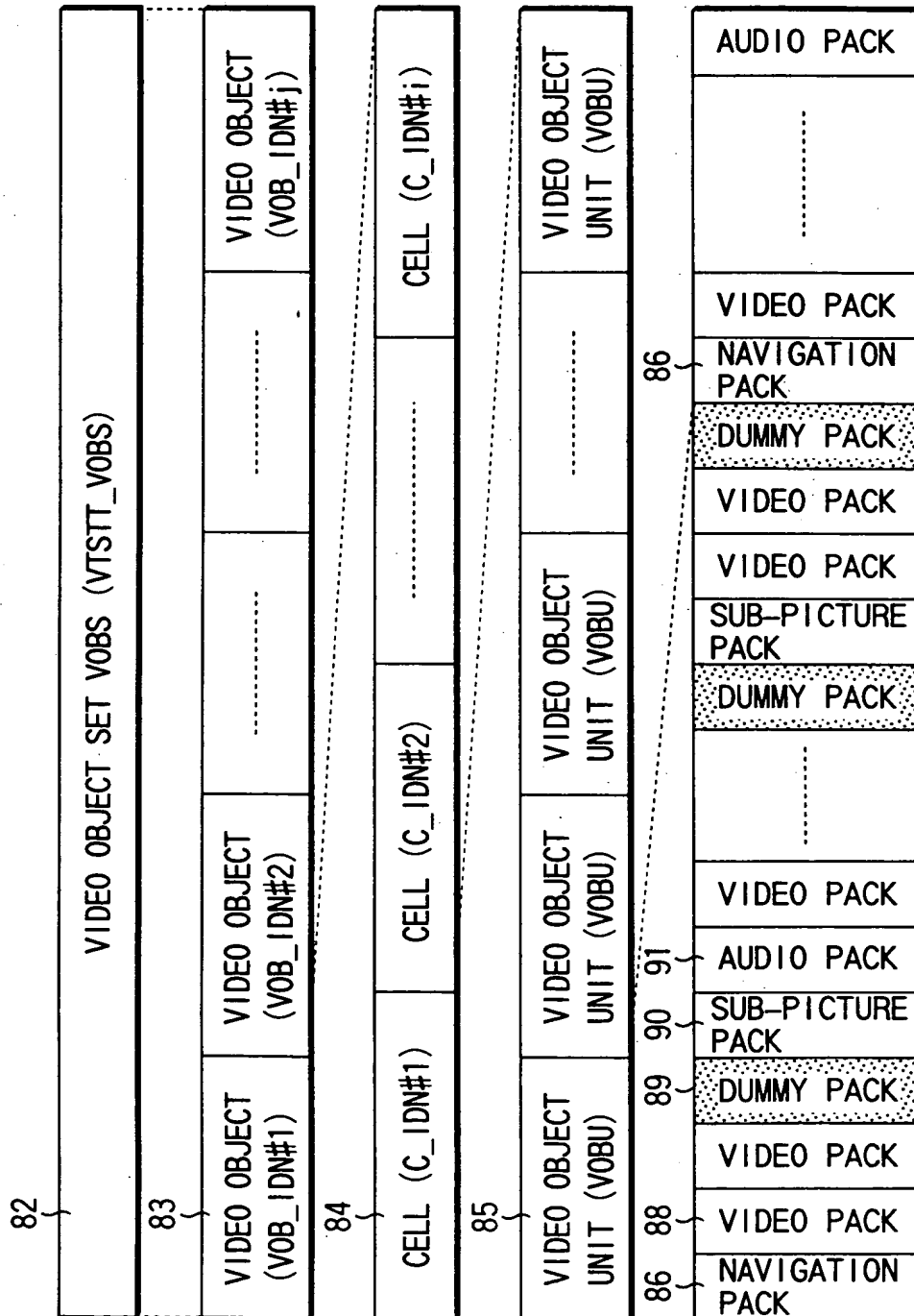
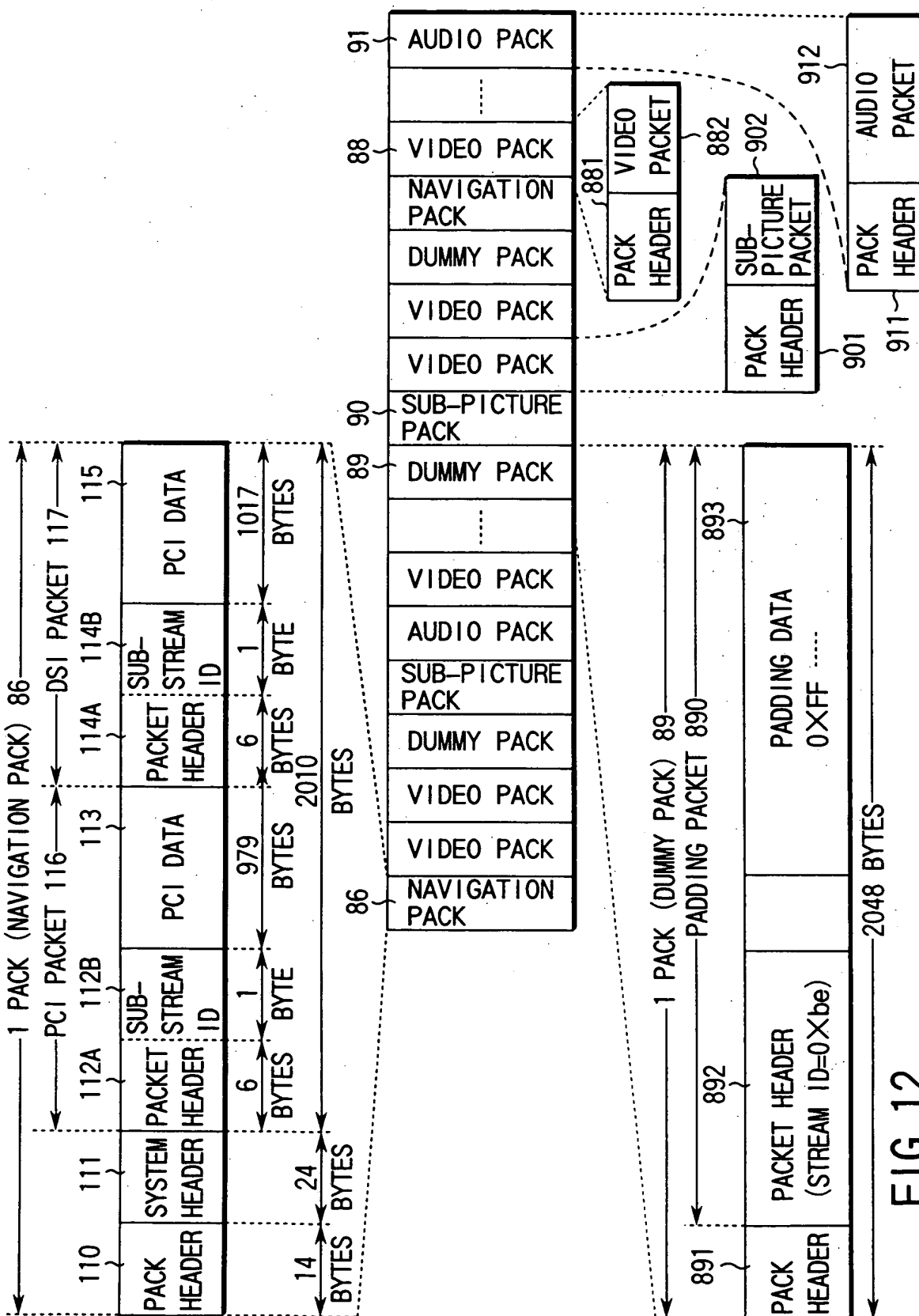


FIG.11



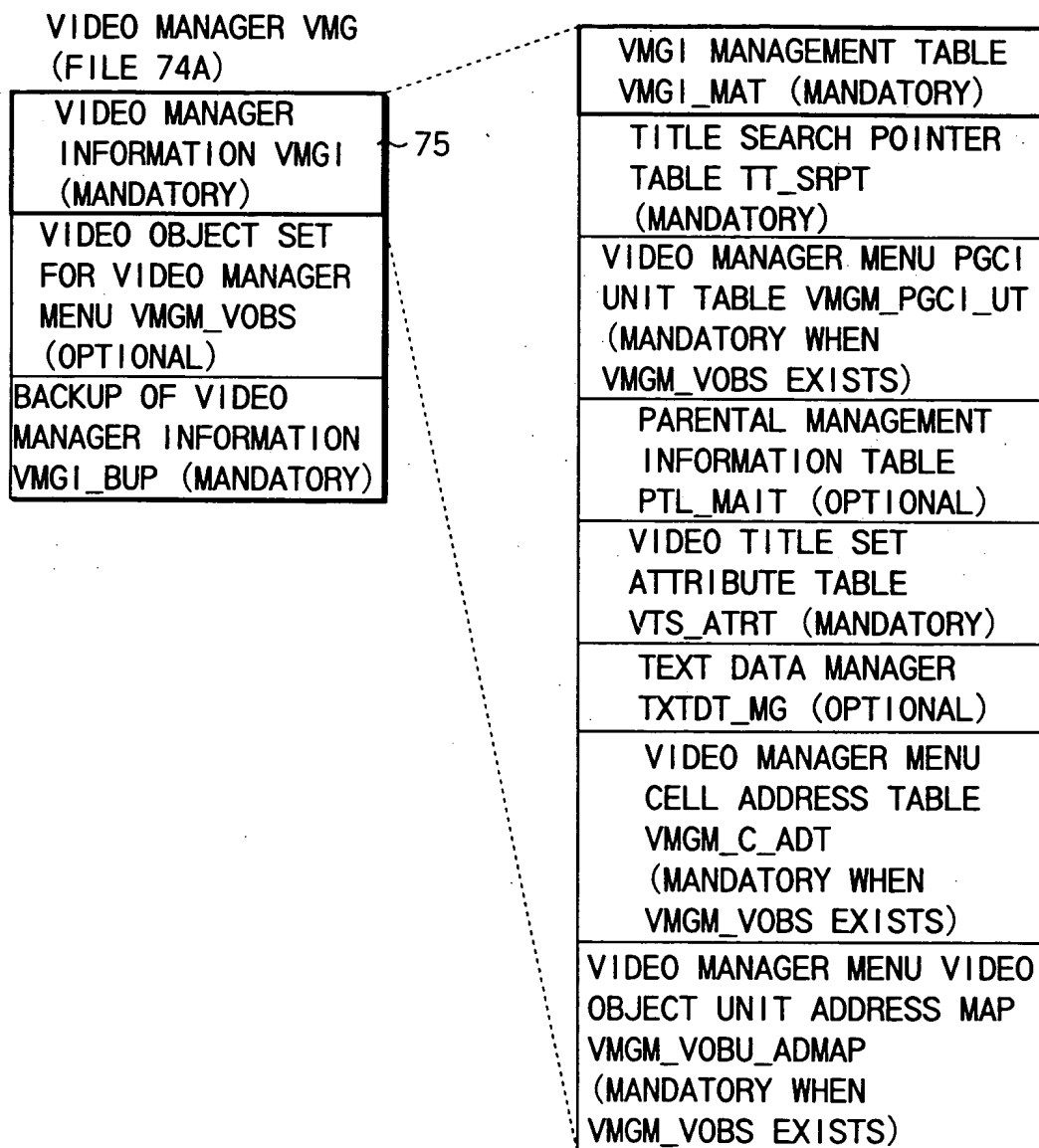


FIG. 14

VIDEO MANAGER INFORMATION MANAGEMENT TABLE VMGI_MAT

RBP	SYMBOL	CONTENTS	NUMBER OF BYTES
0-11	VMG_ID	VMG IDENTIFIER	12
12-15	VMG_EA	END ADDRESS OF VMG	4
16-27	RESERVED	RESERVED	12
28-31	VMGI_EA	END ADDRESS OF VMGI	4
32-33	VERN	VERSION OF DVD SPEC.	2
34-37	VMG_CAT	VIDEO MANAGER CATEGORY	4
38-45	VLMS_ID	VOLUME SET IDENTIFIER	8
46-49	FREE_SPACE	FREE SPACE/FREE AREA	14
50-61	RESERVED	RESERVED	12
62-63	VTS_Ns	NUMBER OF VTS	2
64-95	PVR_ID	PROVIDER UNIQUE ID	32
96-127	RESERVED	RESERVED	32
128-131	VMGI_MAT_EA	VMGI_MAT END ADDRESS	4
132-135	FP_PGC1_SA	FP_PGC1 START ADDRESS	4
136-191	RESERVED	RESERVED	56
192-195	VMGM_VOBS_SA	VMGM_VOBS START ADDRESS	4
196-199	TT_SRPT_SA	TT_SRPT START ADDRESS	4
200-203	VMGM_PGC1_UT_SA	VMGM_PGC1_UT START ADDRESS	4
204-207	PTL_MA1T_SA	PTL_MA1T START ADDRESS	4
208-211	VTS_ATRT_SA	VTS_ATRT START ADDRESS	4
212-215	TXTDT_MG_SA	TXTDT_MG START ADDRESS	4
216-219	VMGM_C_ADT_SA	VMGM_C_ADT START ADDRESS	4
220-223	VMGM_VOBU_ADMAP_SA	VMGM_VOBU_ADMAP START ADDRESS	4
224-255	RESERVED	RESERVED	32
256-257	VMGM_V_ATR	VIDEO ATTRIBUTE OF VMGM	2
258-259	VMGM_AST_Ns	NUMBER OF AUDIO STREAMS OF VMGM	2
260-267	VMGM_AST-ATR	AUDIO STREAM ATTRIBUTE OF VMGM	8
268-323	RESERVED	RESERVED	56
324-339	RESERVED	RESERVED	16
340-341	VMGM_SPST_Ns	NUMBER OF SUB-PICTURE STREAMS OF VMGM	2
342-347	VMGM_SPST_ATR	SUB-PICTURE STREAM ATTRIBUTE OF VMGM	6
348-1023	RESERVED	RESERVED	676
1024-2291 (MAX)	FP_PGC1	FIRST PLAY PGC1	0 OR 236-268

FIG. 15

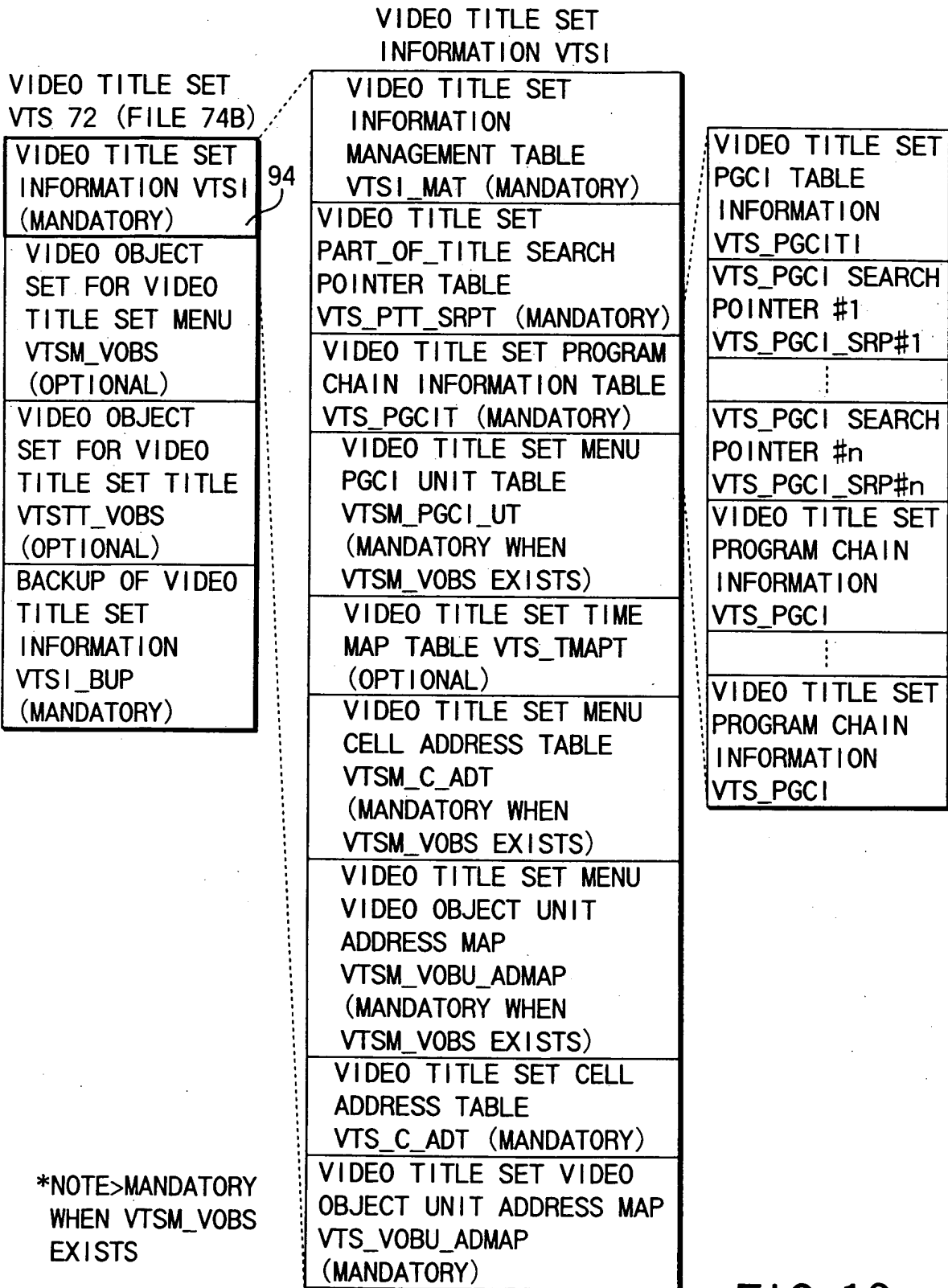


FIG.16

VIDEO TITLE SET INFORMATION MANAGEMENT TABLE VTSI_MAT

RBP	SYMBOL	CONTENTS	NUMBER OF BYTES
0-11	VTS_ID	VTS IDENTIFIER	12
12-15	VTS_EA	END ADDRESS OF VTS	4
16	PLAY_END Flag	0=NOT YET PLAYED BACK; 1=COMPLETELY PLAYED BACK	1
17	ARCHIVE Flag	0=FREE (ERASABLE); 1=KEEP (UNERASABLE)	1
18-27	RESERVED	RESERVED	10
28-31	VTSI_EA	END ADDRESS OF VTSI	4
32-33	VERN	VERSION OF DVD SPEC.	2
34-37	VTS_CAT	VTS CATEGORY	4
38-127	RESERVED	RESERVED	90
128-131	VTSI_MAT_EA	END ADDRESS OF VTSI_MAT	4
132-191	RESERVED	RESERVED	60
192-195	VTSM_VOBS_SA	START ADDRESS OF VTSM_VOBS	4
196-199	VTSTT_VOBS_SA	START ADDRESS OF VTSTT_VOBS	4
200-203	VTS_PTT_SRPT_SA	START ADDRESS OF VTS_PTT_SRPT	4
204-207	VTS_PGCIT_SA	START ADDRESS OF VTS_PGCIT	4
208-211	VTSM_PGCIT_UT_SA	START ADDRESS OF VTSM_PGCIT_UT	4
212-215	VTS_TMAPT_SA	START ADDRESS OF VTS_TMAPT	4
216-219	VTSM_C_ADT_SA	START ADDRESS OF VTSM_C_ADT	4
220-223	VTSM_VOBU_ADMAP_SA	START ADDRESS OF VTSM_VOBU_ADMAP	4
224-227	VTS_C_ADT_SA	START ADDRESS OF VTS_C_ADT	4
228-231	VTS_VOBU_ADMAP_SA	START ADDRESS OF VTS_VOBU_ADMAP	4
232-255	RESERVED	RESERVED	24
256-579	ATTRIBUTES OF VIDEO, AUDIO, SUP-PICTURE, ETC.		324
580-595	RESERVED	RESERVED	16
596-597	VTS_SPST_Ns	NUMBER OF SUB-PICTURE STREAMS OF VTS	2
598-789	VTS_SPST_ATRT	SUB-PICTURE STREAM ATTRIBUTE TABLE OF VTS	192
790-791	RESERVED	RESERVED	2
792-983	VTS_MU_AST_ATRT	MULTICHANNEL AUDIO STREAM ATTRIBUTE TABLE OF VTS	192
984-2047	RESERVED	RESERVED	1064

FIG. 17

PROGRAM CHAIN GENERAL INFORMATION PGC_GI

RBP	SYMBOL	CONTENTS	NUMBER OF BYTES
0-3	PGC_CNT	PGC CONTENTS	4
4-7	PGC_PB_TM	PGC PLAYBACK TIME	4
8-11	PGC_UOP_CTL	PGC USER OPERATION CONTROL	4
12-27	PGC_AST_CTLT	PGC AUDIO STREAM CONTROL TABLE	16
28-155	PGC_SPST_CTLT	PGC SUB-PICTURE STREAM CONTROL TABLE	128
156-163	PGC_NV_CTL	PGC NAVIGATION CONTROL	8
164-227	PGC_SP_PLT	PGC SUB-PICTURE PALETTE	4×16
228-229	PGC_CMDT_SA	START ADDRESS OF PGC_CMDT	2
230-231	PGC_PGMAP_SA	START ADDRESS OF PGC_PGMAP	2
232-233	C_PBIT_SA	START ADDRESS OF C_PBIT	2
234-235	C_POSIT_SA	START ADDRESS OF C_POSIT	2
TOTAL 236 BYTES			

FIG. 18

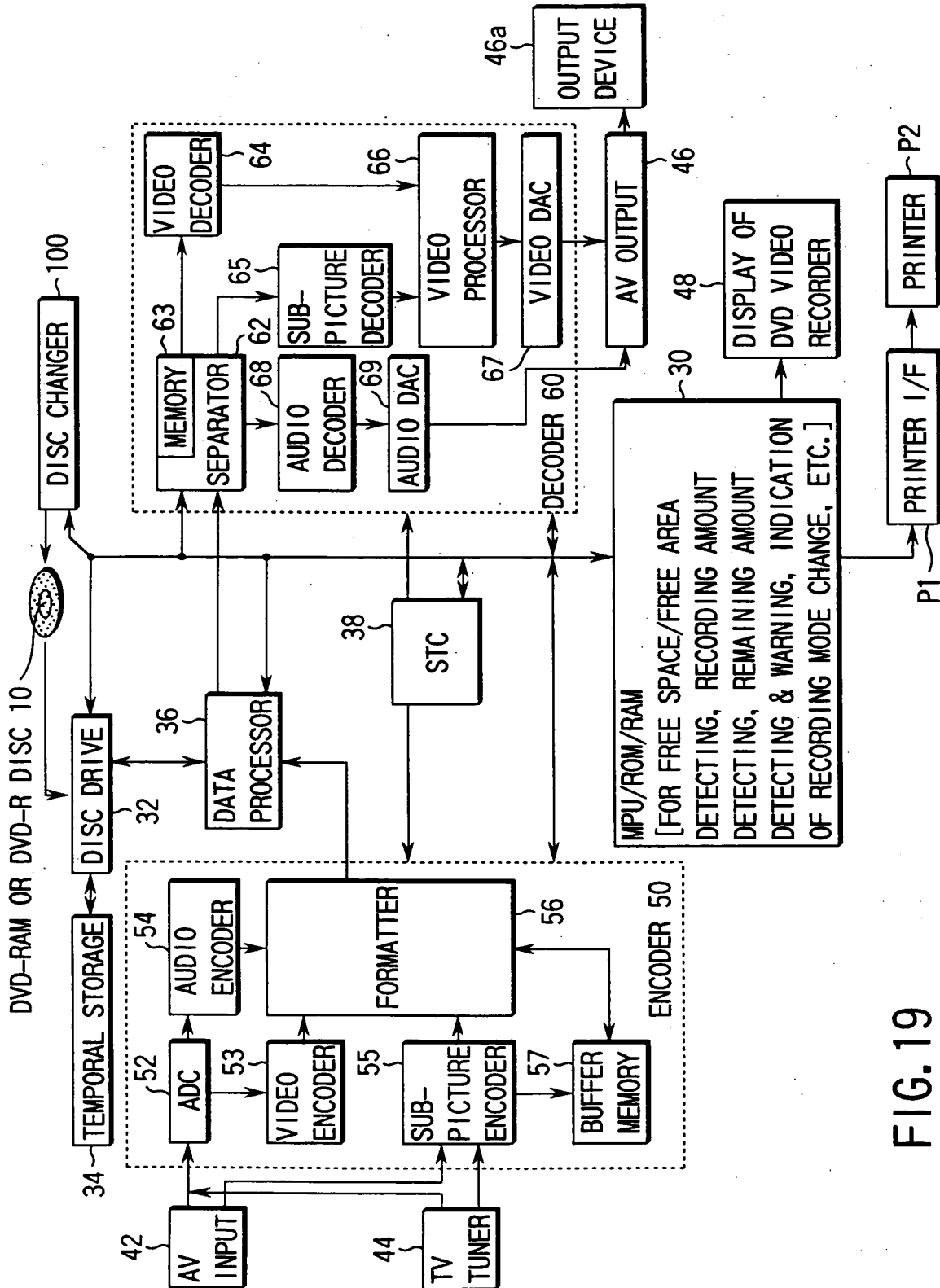


FIG.19

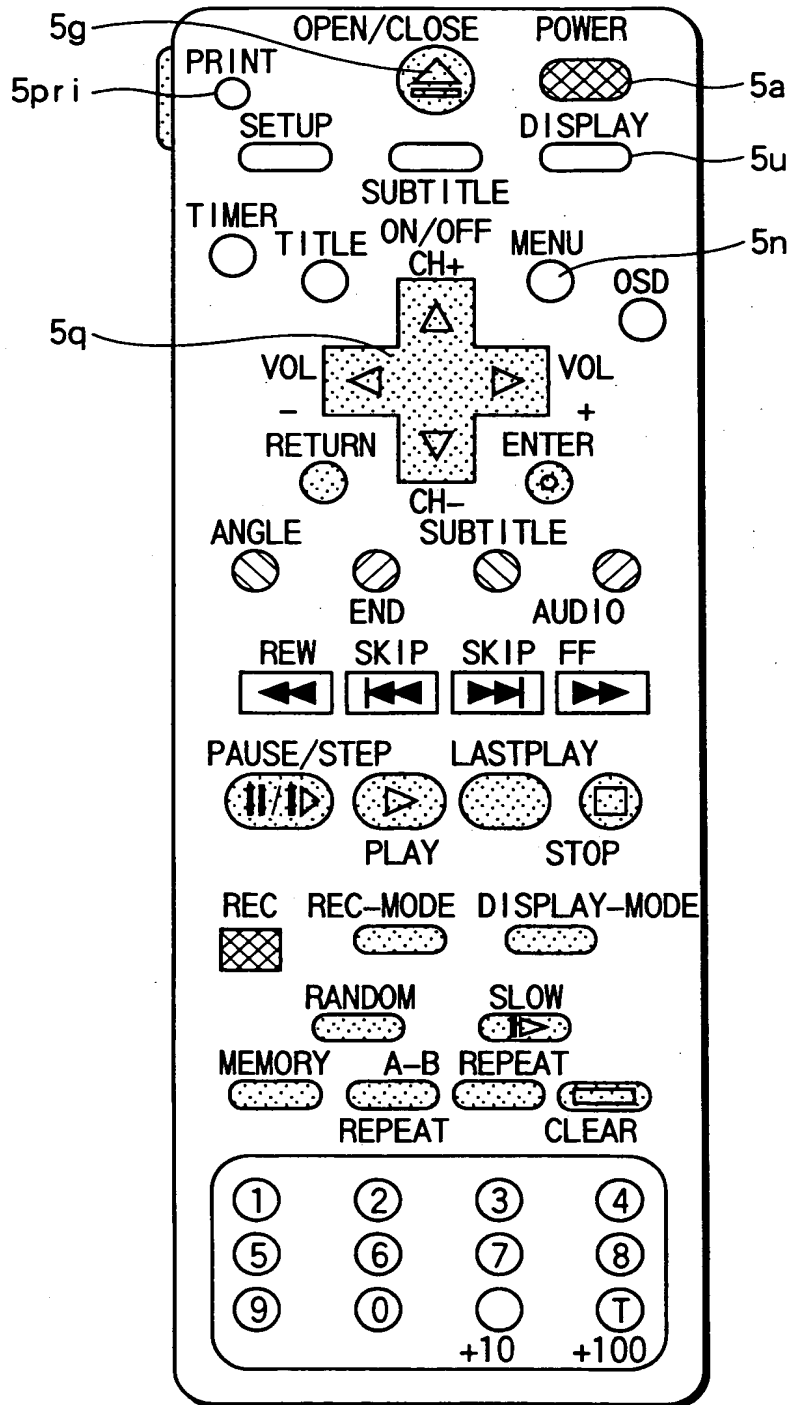


FIG. 20

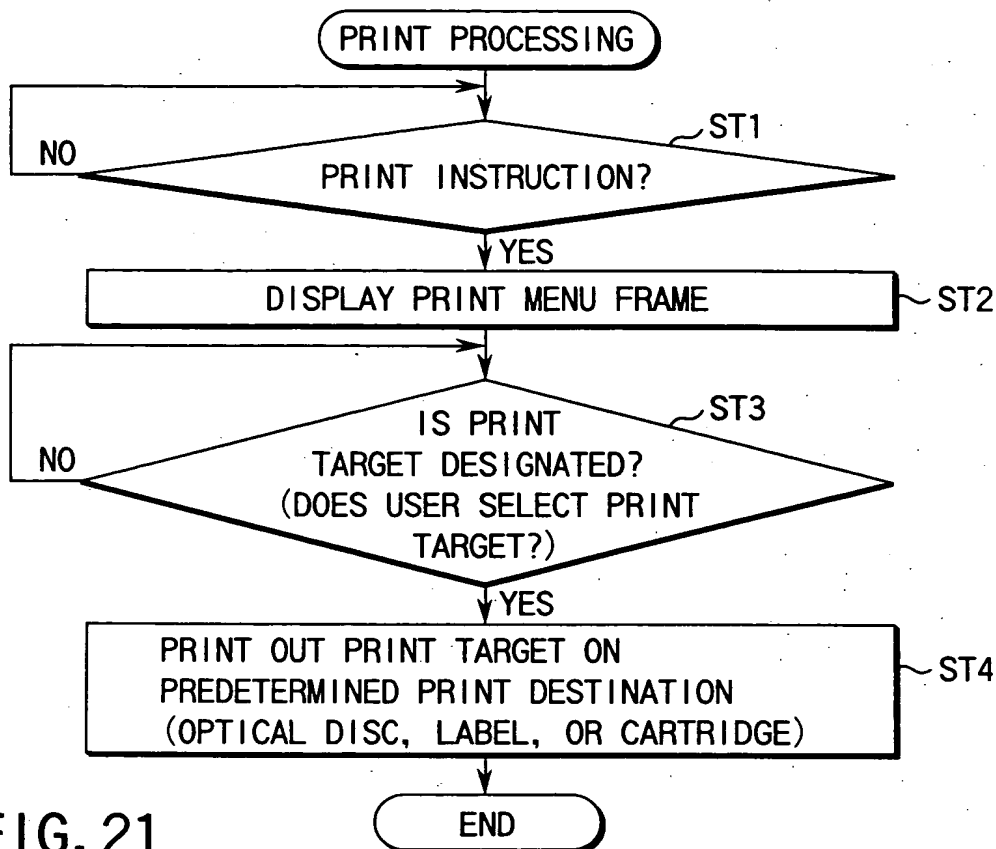


FIG. 21

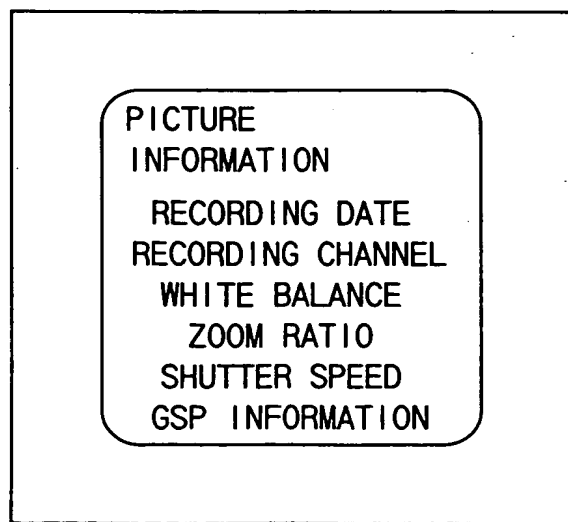


FIG. 22

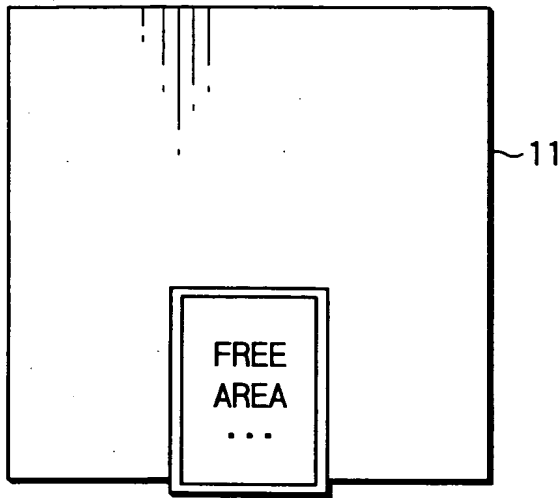


FIG. 23A

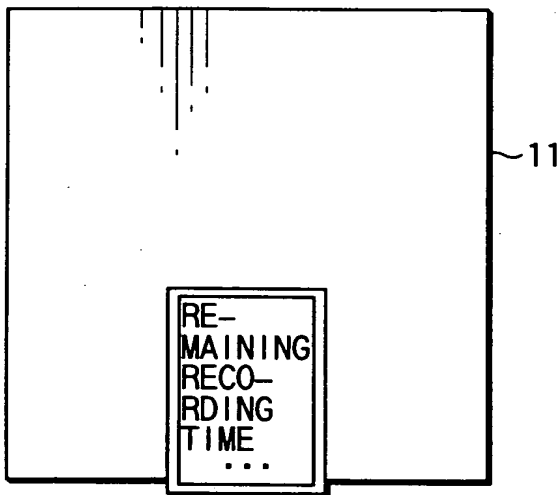


FIG. 23B

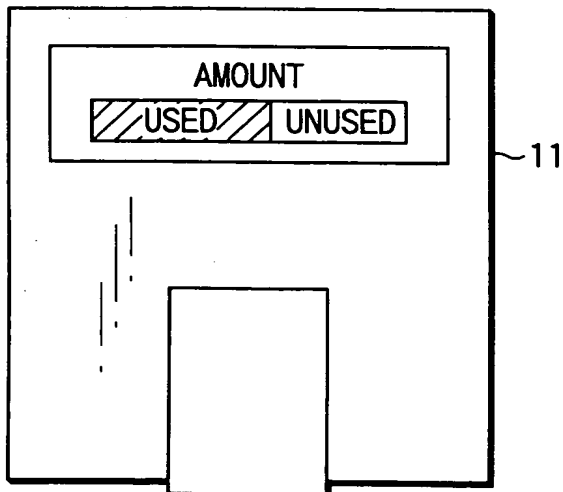


FIG. 23C

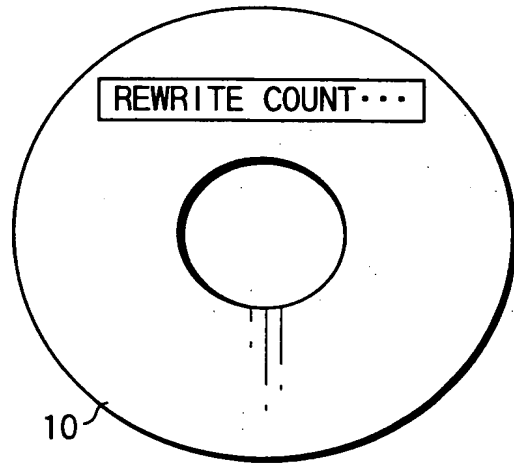


FIG. 24A

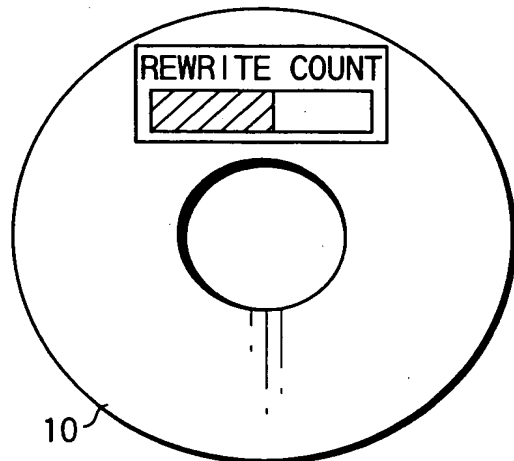


FIG. 24B

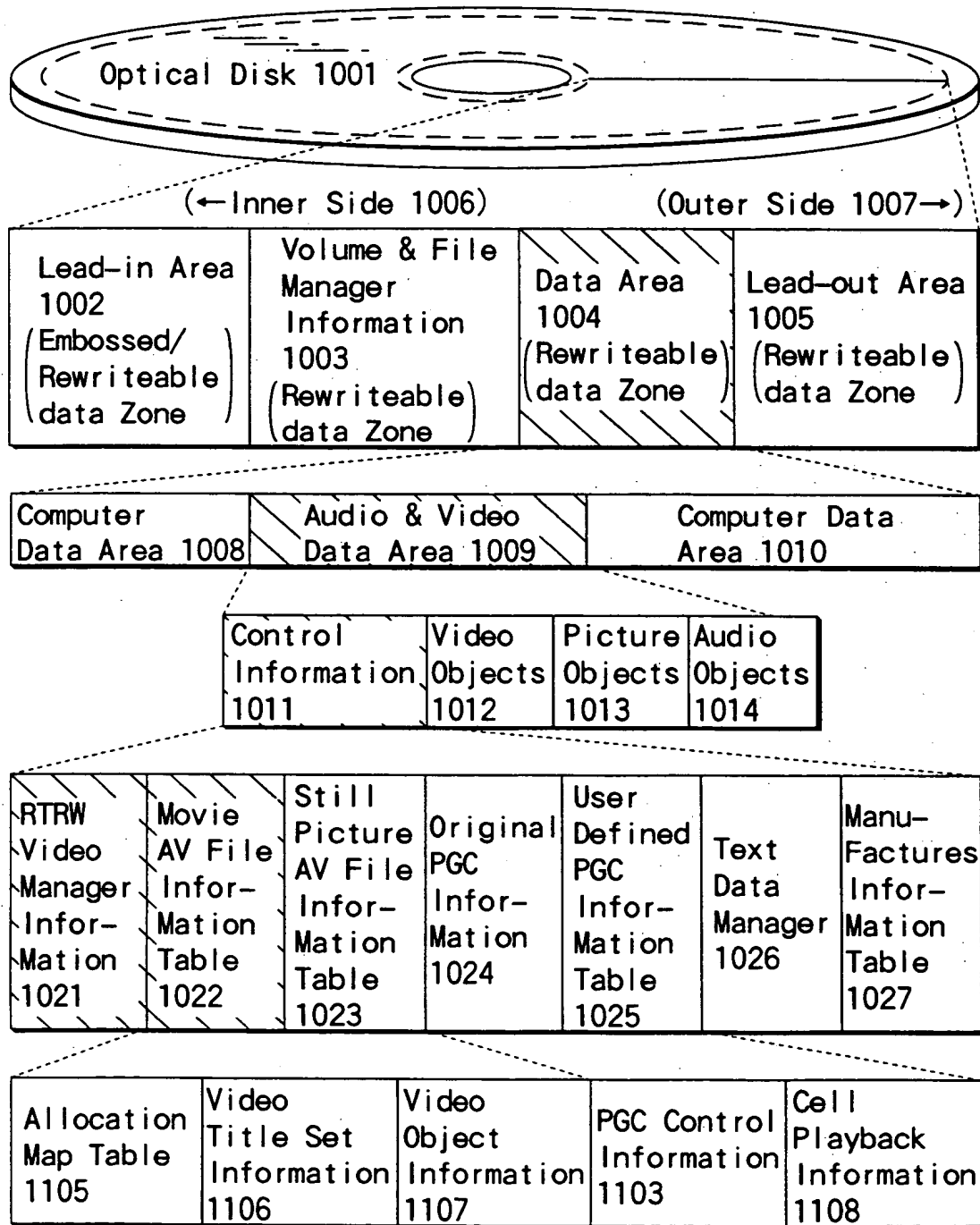


FIG. 25

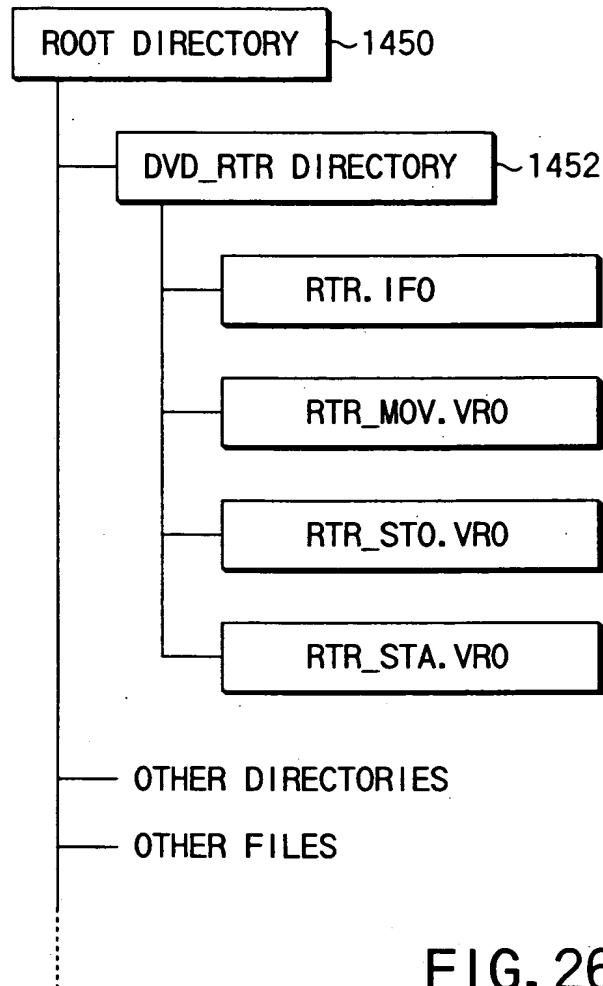


FIG. 26

AV FILE 1401																							
VOB #3 1463				VOB #1 1461				VOB #3 1464				VOB #2 1462				UN-RECORDED AREA 1460		VOB #3 1465					
EXTENT # γ 1473				EXTENT # α 1471				EXTENT # δ 1474				EXTENT # β 1472				EXTENT # ζ 1470				EXTENT # ϵ 1475			
LSN a+1	LSN a+2	...	LSN b	LSN b+1	LSN b+2	...	LSN c	LSN c+1	...	LSN d	LSN d+1	...	LSN e	LSN e+1	...	LSN f	LSN f+1	...	LSN g				

← LSN (LOGICAL SECTOR NUMBER) SMALL
(TOWARD INNER SIDE ON
OPTICAL DISK 1001)

LSN LARGE →
(TOWARD OUTER SIDE
ON OPTICAL DISK 1001)

FIG. 28

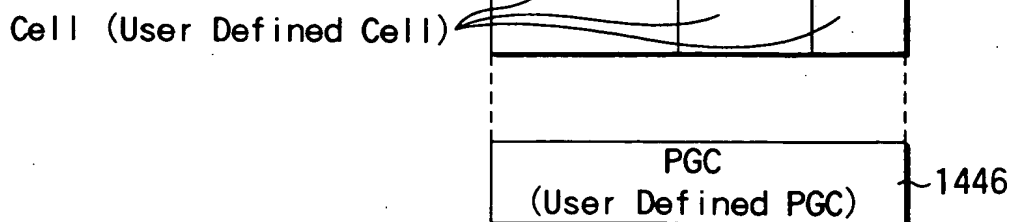


FIG. 27

UNRECORDED AREA POSITION DISTRIBUTION INFORMATION 1621	NUMBER OF EXTENTS IN UNRECORDED AREA	1601	1
DATA RECORDING POSITION DISTRIBUTION INFORMATION ABOUT VOB#1 1622	START ADDRESS OF FIRST EXTENT IN UNRECORDED AREA (LOGICAL SECTOR NUMBER)	1606	e-a
DATA RECORDING POSITION DISTRIBUTION INFORMATION ABOUT VOB#2 1623	SIZE OF FIRST EXTENT IN UNRECORDED AREA (SECTOR NUMBER)	1614	f-e
DATA RECORDING POSITION DISTRIBUTION INFORMATION ABOUT VOB#3 1624	NUMBER OF EXTENTS INCLUDED IN VOB#1	1602	1
	START ADDRESS OF FIRST EXTENT IN VOB#1 (LOGICAL SECTOR NUMBER)	1607	b-a
	SIZE OF FIRST EXTENT IN VOB#1	1615	c-b
	NUMBER OF EXTENTS INCLUDED IN VOB#2	1603	1
	START ADDRESS OF FIRST EXTENT IN VOB#2 (LOGICAL SECTOR NUMBER)	1608	d-a
	SIZE OF FIRST EXTENT IN VOB#2	1616	e-d
	NUMBER OF EXTENTS INCLUDED IN VOB#3	1604	3
	START ADDRESS OF FIRST EXTENT IN VOB#3 (LOGICAL SECTOR NUMBER)	1609	1
	SIZE OF FIRST EXTENT IN VOB#3	1617	b-a
	START ADDRESS OF SECOND EXTENT IN VOB#3 (LOGICAL SECTOR NUMBER)	1610	c-a
	SIZE OF SECOND EXTENT IN VOB#3	1618	d-c
	START ADDRESS OF THIRLD EXTENT IN VOB#3 (LOGICAL SECTOR NUMBER)	1611	f-a
	SIZE OF THIRD EXTENT IN VOB#3	1619	g-f

FIG. 29

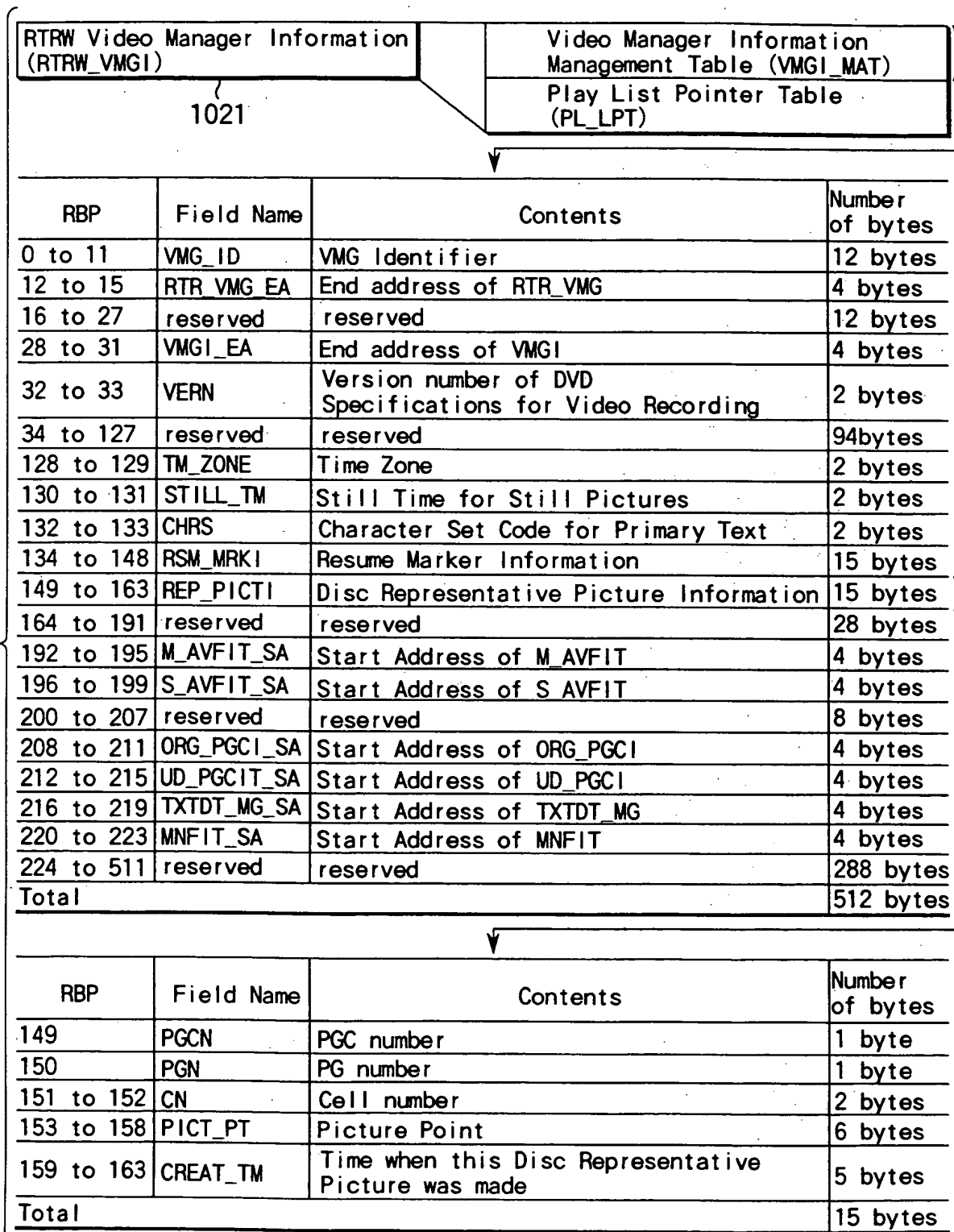
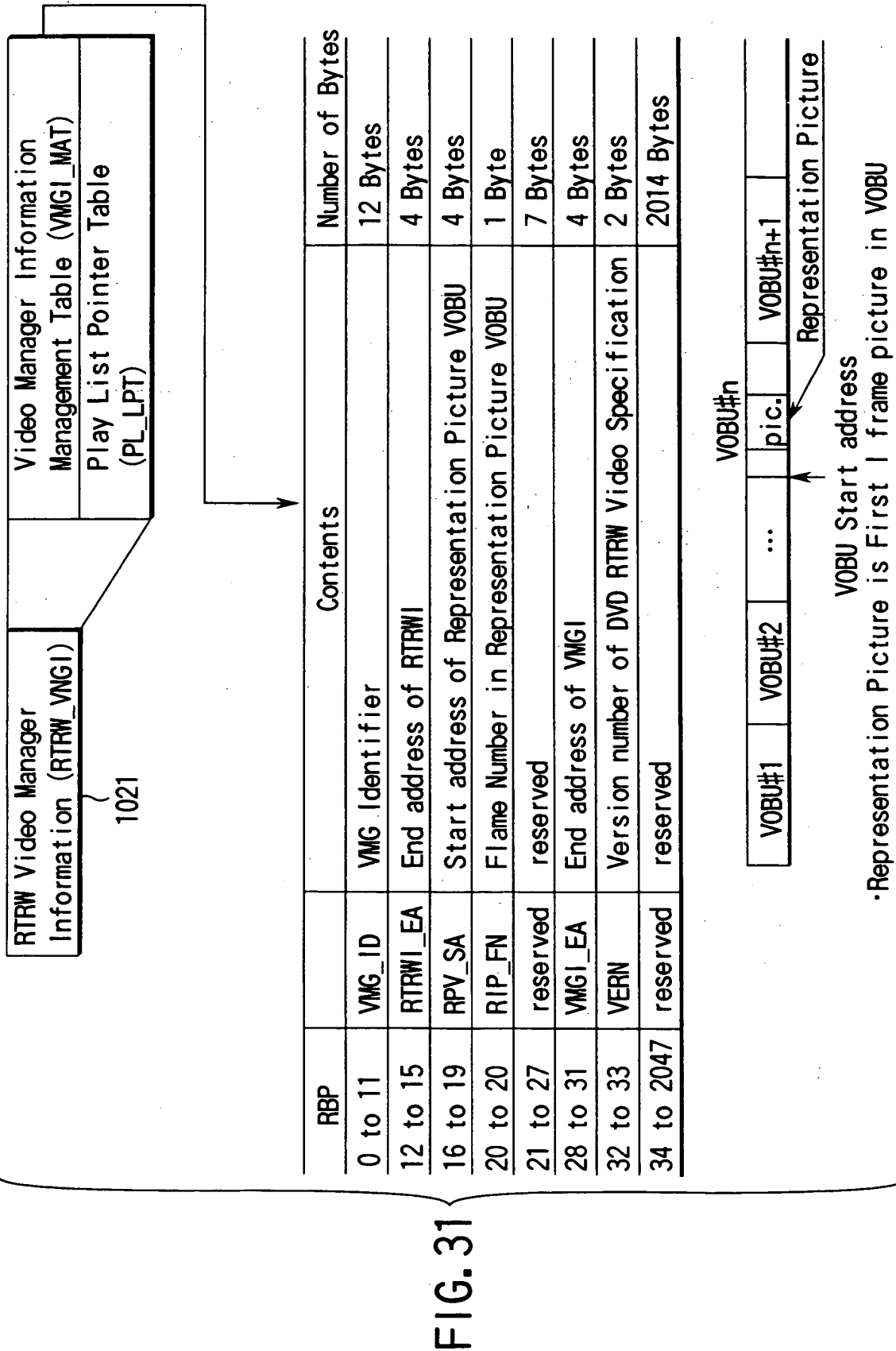
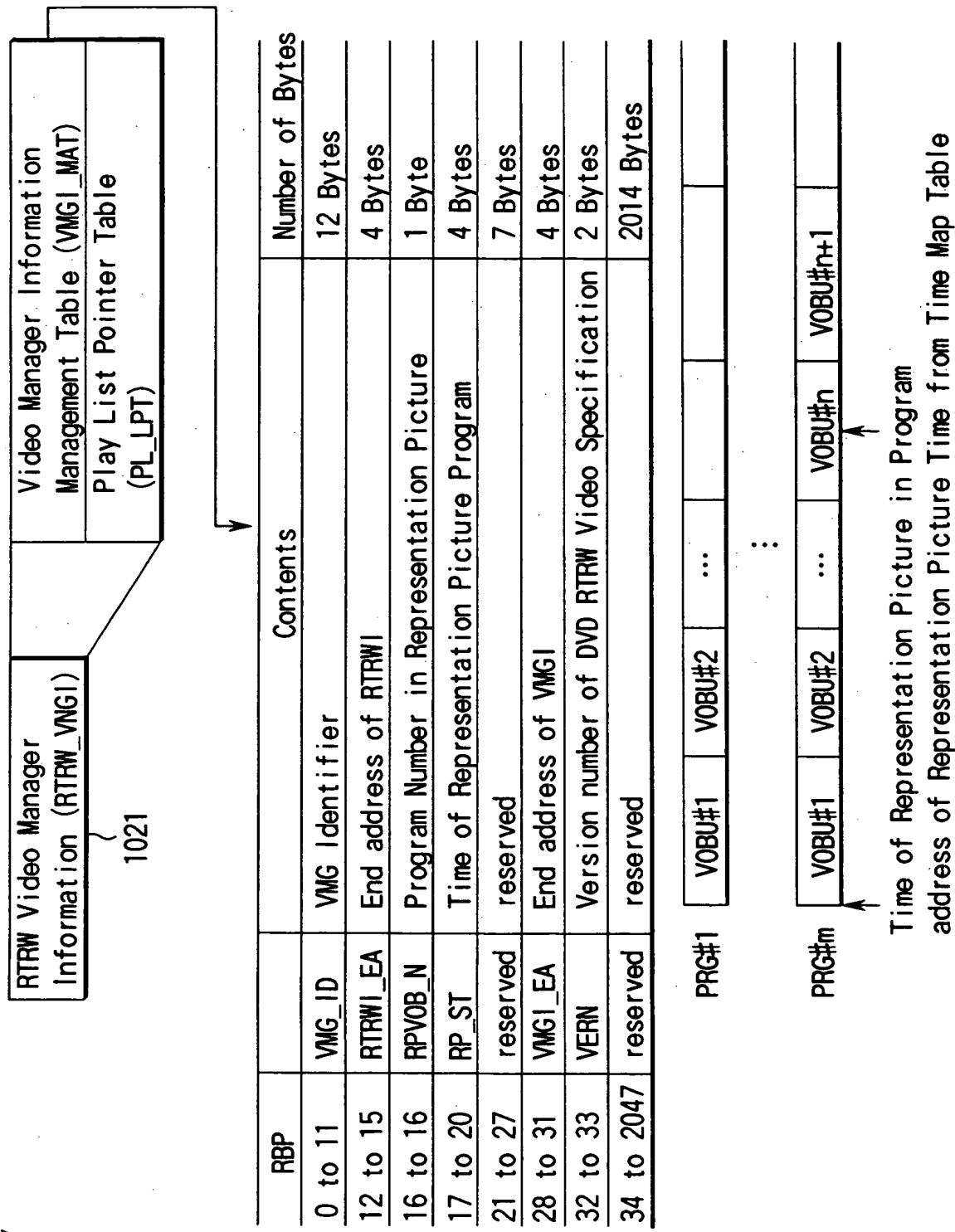


FIG. 30





PGC (PROGRAM CHAIN) CONTROL INFORMATION 1103

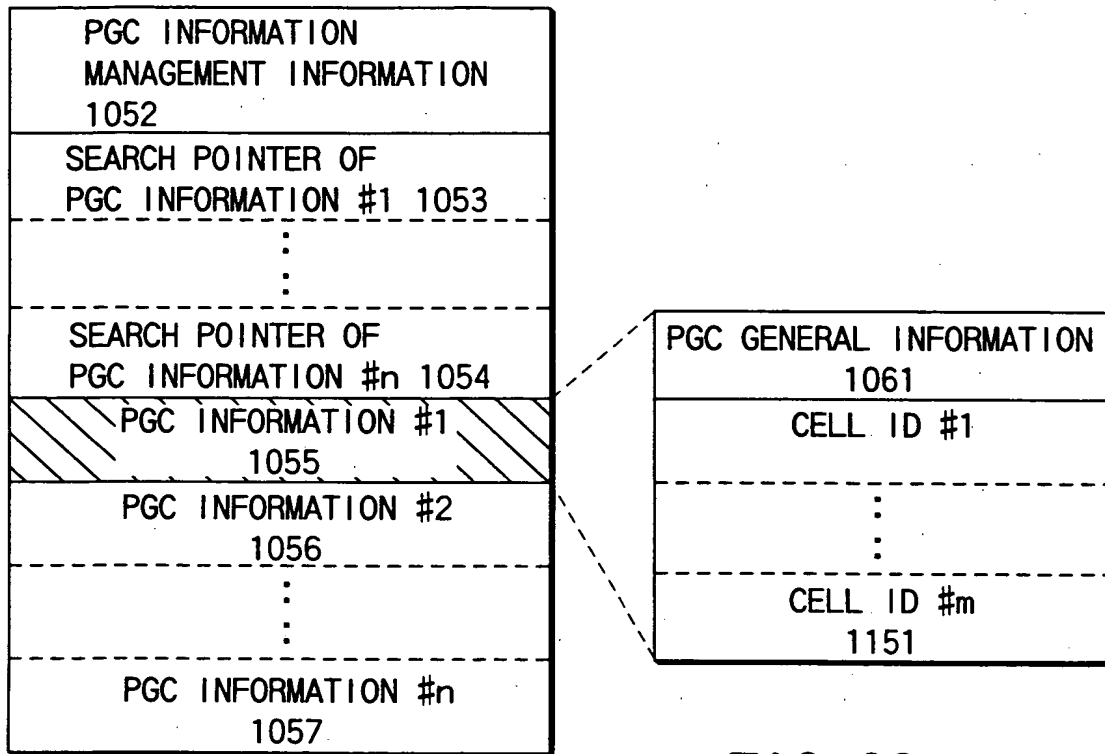


FIG. 33

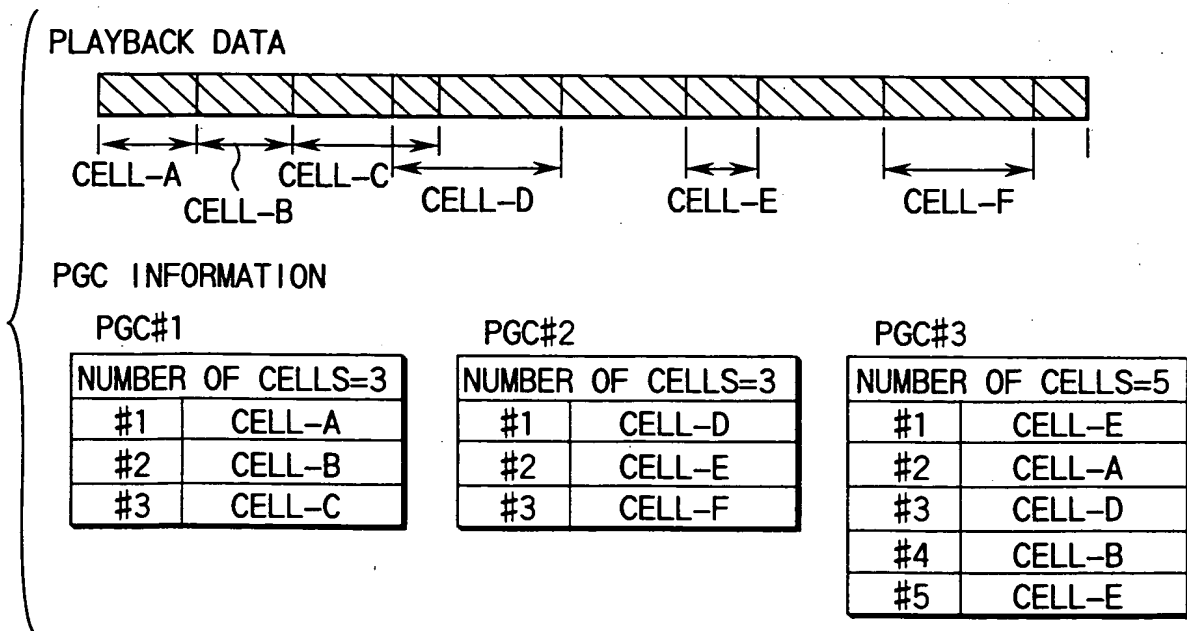


FIG. 34